

Date 4/28/58MATERIAL BALANCE ON RADIOACTIVE ISOTOPES OBTAINED BY M. Stern

Shipment No.	Material	Date Received	Quantity Received	Quantity on Hand		Comments (Form of material, storage, disposal, decay, etc.)
				Date	Date	
0	Co ⁶⁰	6/1953	3.85 mc.	2.09 mc. 3/3/58	2.04 mc. 4/28/58	Stored in lead container in Dead Storage Building. Difference in quantity due to decay.
1	Ni ⁶³	1/14/55	2 mc.	1.941 mc. 3/3/58	1.938 mc. 4/28/58	Stored in storage container as Watt's type plating bath, in Room 204. Difference in quantity due to decay.
5	Ni ⁶³	12/28/55	3 mc.	2.928 mc. 3/3/58	2.906 mc. 4/28/58	Stored in storage container, as 10% HNO ₃ solution, in Room 204. Difference in quantity due to decay.
7	H ³	3/29/56	150 mc.	134.8 mc. 3/3/58	133.6 mc. 4/28/58	Material present as gas in unopened container. Stored in drawer in Room 204. Difference in quantity due to decay.
8	H ³	4/4/56	150 mc.	45.6 mc. 3/3/58	0 4/28/58	Used tritiated H ₂ O to mix plaster of paris. Discarded as solid mix in Radioactive Waste.
9	C ¹⁴	5/8/56	5 mc.	5 mc. 3/3/58	5 mc. 4/28/58	Present as BaCO ₃ in unopened container. Stored in drawer in Room 204. Difference in quantity due to decay.
11	H ³	10/11/56	150 mc.	139.1 mc. 3/3/58	137.9 mc. 4/28/58	Present as tritiated H ₂ O in unopened container in drawer in Room 204. Difference in quantity due to decay.
12	Po ²¹⁰	4/11/57	2.54 mc.	0.41 mc. 3/3/58	0 4/28/58	Evaporated HNO ₃ solution of Po ²¹⁰ and discarded solid residue in Radioactive Waste.
13	Cr ⁵¹	5/3/57	2 mc.	1.29 uc. 3/3/58	0 4/28/58	Evaporated 10% HCl solution of Cr ⁵¹ to dryness and discarded residue in Radioactive Waste.
14	Fe ⁵⁹	5/3/57	1 mc.	11.1 uc. 3/3/58	0 4/28/58	Evaporated 10% HCl solution of Fe ⁵⁹ to dryness and discarded residue in Radioactive Waste.
15	Fe ⁵⁵	7/5/57	1.11 mc.	0.938 mc. 3/3/58	0 4/28/58	Evaporated HCl solution of Fe ⁵⁵ to dryness and discarded residue in Radioactive Waste.

Signed: E. A. Tames

UCCNHT0000401

Date: 4/28/58

AREA SURVEY FOR RADIOACTIVE CONTAMINATION

Room No. 202 and 204

Instruments Used: Nuclear - Chicago Model 1615B with thin end window counter model D-34

Measurements and Comments:

A thorough survey of the hoods and benches in Rooms 202 and 204 was made. No detectable contamination could be found.

All glassware, tools, etc., which were used to contain or handle isotopes were decontaminated and surveyed. Those items which were found to be free of contamination were placed back in stock. Items which could not be decontaminated were discarded in the Radioactive Waste Container.

All isotopes were removed from the hoods and either stored or discarded in Radioactive Waste. (See material balance report)

No further tracer work is anticipated in either of these rooms.

Survey by: E. A. Tones

UCCNHT0000402

Date: May 1, 1958RECORD OF FILM BADGE AND POCKET DOSIMETER USE

Name	Badge No. 128-	Badge Date	Badge Received	Badge Returned	Chamber No.	Chamber Dose	Comments
M. Stern	.001		Not Used				
E. Tomes	.002	1/1/58	1/1/58	1/31/58			
E. Bartolomei	.003		Not Used				
	.004		Not Used				
	.005		Not Used				
	.006		Not Used				
W. W. Webb	.007						
N. Bertolone	.008						
A. Silvaggi	.009						
M. Stern	.001		Not Used				
E. Tomes	.002	2/1/58	2/3/58	2/28/58	17885	< 5 Mr	Used 3/8/58 Co ⁶⁰ transfer
E. Bartolomei	.003		Not Used		17888	< 5 Mr	Used 3/8/58 Co ⁶⁰ transfer
R. Rosenthal	.004	2/1/58	2/3/58	2/28/58			Filmbadge exp. 50 Mr
E. Schwinger	.005	2/1/58	2/3/58	2/28/58			
B. Lupica	.006	2/1/58	2/3/58	2/28/58			
W. W. Webb	.007	2/1/58	2/3/58	2/28/58			
N. Bertolone	.008	2/1/58	2/3/58	2/28/58			
A. Silvaggi	.009	2/1/58	2/3/58	2/28/58			
M. Stern	.001		Not Used				
E. Tomes	.002	3/1/58	3/3/58	3/31/58			
E. Bartolomei	.003						Used by B. Mitchell
R. Rosenthal	.004	3/1/58	3/3/58	3/31/58			
E. Schwinger	.005	3/1/58	3/3/58	3/31/58			
B. Lupica	.006	3/1/58	3/3/58	3/31/58			
W. W. Webb	.007	3/1/58	3/3/58	3/31/58			
N. Bertolone	.008	3/1/58	3/3/58	3/31/58			
A. Silvaggi	.009	3/1/58	3/3/58	3/31/58			
M. Stern	.001						
E. Tomes	.002						
E. Bartolomei	.003						
	.004						
	.005						
	.006						
W. W. Webb	.007						
N. Bertolone	.008						
A. Silvaggi	.009						

All film badge reports showed an exposure of less than 50 Mr except those reported in comment column.

Signed: E a Tomes

UCCNHT0000403